

-continued

Hair conditioner

5	COMPONENTS	HC1	HC2
	<u>ANALYSIS</u>		
	Appearance	White viscous emulsion	White viscous emulsion
10	pH (100%)	4-6	4-6
	Viscosity (cps) 20° C.	~5000	~5000
	% Dry matter	4.5-5.5	4.5-5.5
	Stability	OK	OK

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Manual dishwashing

20	COMPONENTS	MD1	MD3
	Deionized water	to 100	to 100
	Na Lauryl ethersulfate (70% Dry) (Emal @ 270E from Kao)	9.5	17.0
	Sodium C14-16 Olefin Sulfonate (37% Dry) (Alfanox @ 46 from Kao)	27.0	14.7
25	Cocoamidopropoxybetaine (34% Dry) (Betadet @ HR)	2.0	2.0
	Cocoamid DEA (Amidet @ B-112 from Kao)	1.0	1.0
	Example E' product	2.0	2.0
30	NaCl	2.0	1.5
	Formaldehyde 40%	0.1	0.1
	<u>ANALYSIS</u>		
	Appearance	Transparent viscous liquid	Transparent viscous liquid
35	pH (100%)	6.5-7.5	6.5-7.5
	Viscosity (cps) 20° C.	400-800	400-800
	Turbidity point (° C.)	-6	-4
	% Dry matter	22-24	22-24
	Washed dishes	17	17
40	Stability	OK	OK

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All purpose cleaner

	COMPONENTS	
	Deionized water	to 100
	Sodium C14-16 Olefin Sulfonate (37% Dry) (Alfanox @ 46 from Kao)	14.6
50	Example E' product	2.0
	Tetrapotassium pyrophosphate	3.0
	Butylglycol	1.0
	EDTA.Na ₄	2.3
	Perfume	e.q.
	Preservative	e.q.
55	<u>ANALYSIS</u>	
	Appearance	Transparent liquid
	pH (100%)	7.0-8.0
	Viscosity (cps) 20° C.	<10
60	% Dry matter	13.0-14.0
	Stability	OK

What is claimed is:

1. Composition comprising

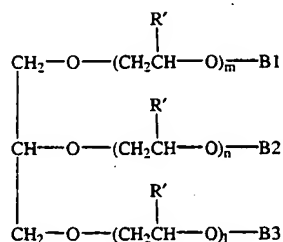
- 65 (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);

(ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;

(iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;

(iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15:

Formula (I):



R' representing H or CH₃, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of 1 to 4;

Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

2. Composition according to claim 1, wherein the weight ratio of the compounds (i)/(ii)/(iii) is 60 to 83/16 to 35/1 to 6.

3. Composition according to claim 1, wherein R' in formula (I) represents H.

4. Composition according to claim 1, wherein the sum of m, n and l in formula (I) is in the range of 1.5 to 3.0.

5. Composition comprising

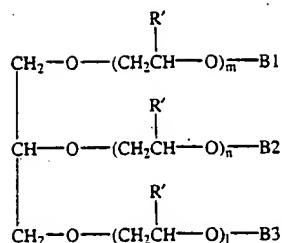
(i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);

(ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;

(iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;

(iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (i)/(ii)/(iii) being 60 to 83/16 to 35/1 to 6:

Formula (I):



R' representing H, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of 1.5 to 3.0;

Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

6. Composition according to claim 5, wherein the sum of m, n and l in formula (I) is smaller than 2.

7. Composition according to claim 5, wherein the weight ratio (i)+(ii)+(iii)/(iv) is in the range of 85/15 to 40/60.

8. Method for the preparation of a composition comprising

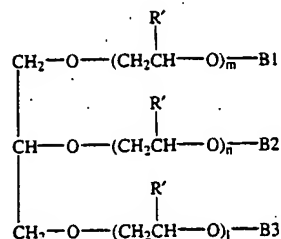
(i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);

(ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;

(iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;

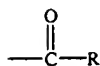
(iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15/1;

Formula (I):



R' representing H or CH₃, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of 1 to 4;

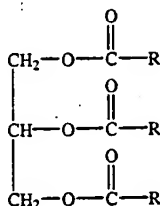
Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

- a) subjecting a mixture of glycerine and a compound of the following formula (III) to an interesterification reaction:



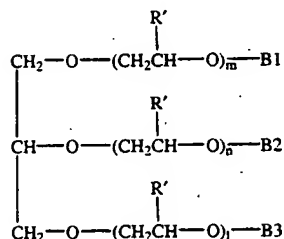
wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and

- b) subjecting the reaction mixture obtained in step a) to an alkoxylation using an alkylene oxide having 2 or 3 carbon atoms in the presence of an alkaline catalyst.

9. Method for the preparation of a composition comprising

- (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
- (ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
- (iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H;
- the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15:

Formula (I):



R' representing H or CH₃, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of 1 to 4;

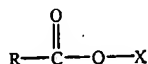
Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

- a') reacting a mixture of glycerine and alkylene oxide having 2 or 3 carbon atoms in the presence of an alkaline catalyst, and
- b') reacting the reaction mixture obtained in step a') with a compound of the following formula (IV):



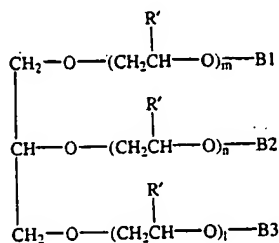
(IV)

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and X represents a methyl group or H.

10. Detergent composition containing a composition comprising the following compounds (i) to (iv) in an amount of 0.5 to 20 wt.-%.

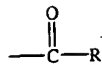
- (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
- (ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
- (iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15;

Formula (I):



R' representing H or CH₃, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of 1 to 4;

Formula (II):



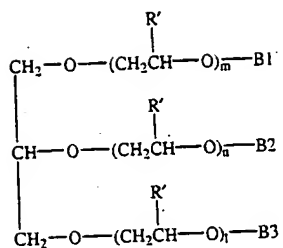
wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

11. Detergent composition containing a composition comprising the following compounds (i) to (iv) in an amount of 1 to 8 wt.-%.

- (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
 - (ii) compounds represented by the following formula (II) wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
 - (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
 - (iv) compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent H;
- the weight ratio of the compounds (i)/(ii)/(iii) being 60 to 83/16 to 35/1 to 6:

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Formula (I):



R' representing H, and each of m, n, and l independently representing a number from 1 to 4, the sum of m, n and l being in the range of 1.5 to 3.0;

Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

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